

CLAIMS

What is claimed is:

1. A baffle for use in a cavity of a structural member, the baffle comprising:

a support member including a first wall and a second wall, the first wall spaced apart from the second wall so as to define an acoustical gap of predetermined dimension therebetween; and

a sealing material operably coupled with and supported by at least a portion of the support member.
2. The baffle of claim 1, wherein the acoustical gap is enclosed.
3. The baffle of claim 1, wherein the acoustical gap includes a fluid.
4. The baffle of claim 3, wherein the fluid is air.
5. The baffle of claim 1, wherein the support member includes an attachment member for securing the baffle to the structural member.
6. The baffle of claim 1, wherein the sealing material is configured to expand when heated to a predetermined temperature.
7. The baffle of claim 6, wherein the support member includes a material having a melting point higher than the expansion temperature of the sealing material.
8. The baffle of claim 1, wherein the sealing material is disposed about a perimeter of the support member.
9. A baffle for use in a cavity of a structural member, the baffle comprising:

a support member including a first support half and a second support half, at least a portion of the first support half spaced apart from the second support half so as to define an acoustical gap of predetermined dimension therebetween; and

a sealing material supported by at least one of the first and second support halves.

10. The baffle of claim 9, wherein the first support half is secured to the second support half.

11. The baffle of claim 9, wherein the support member includes a rim disposed around a perimeter of the support halves.

12. The baffle of claim 11, wherein the sealing material is operably coupled with and supported by the rim.

13. A noise attenuated structural member, comprising:

a structural member defining a cavity; and

a baffle positioned in the cavity, the baffle comprising a support member including a first wall and a second wall, the first wall spaced apart from the second wall so as to define an acoustical gap of predetermined dimension therebetween; and a sealing material positioned between the support member and the structural member.

14. The noise attenuated structural member of claim 13, wherein the acoustical gap is enclosed.

15. The noise attenuated structural member of claim 13, wherein the acoustical gap includes a fluid.

16. The noise attenuated structural member of claim 15, wherein the fluid is air.

17. The noise attenuated structural member of claim 13, wherein the support member includes an attachment member for securing the baffle to the structural member.

18. The noise attenuated structural member of claim 13, wherein the sealing material is configured to expand when heated to a predetermined temperature.

19. The noise attenuated structural member of claim 18, wherein the support member includes a material having a melting point higher than the expansion temperature of the sealing material.

20. The noise attenuated structural member of claim 13, wherein the sealing material is operably coupled with and supported by at least a portion of the support member.